

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

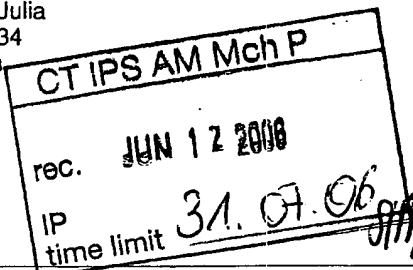
## PCT

### NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(PCT Rule 71.1)

To:

PAYNE, Janice Julia  
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Date of mailing  
(day/month/year)

12.06.2006

Applicant's or agent's file reference  
2004P01512wo

#### IMPORTANT NOTIFICATION

International application No.  
PCT/EP2005/001405

International filing date (day/month/year)  
04.02.2005

Priority date (day/month/year)  
31.03.2004

Applicant  
SIEMENS AKTIENGESELLSCHAFT et al.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

#### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international  
preliminary examining authority:



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# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

|   |   |   |                     |
|---|---|---|---------------------|
| Applicant's or agent's file reference<br>2004P01512wo   | <b>FOR FURTHER ACTION</b>   |   | See Form PCT/PEA416 |
| International application No.<br>PCT/EP2005/001405  | International filing date ( <i>day/month/year</i> )<br>04.02.2005 | Priority date ( <i>day/month/year</i> )<br>31.03.2004   |                     |
| International Patent Classification (IPC) or national classification and IPC<br>INV. H04Q11/00 H04L12/56  |   |   |                     |
| Applicant<br>SIEMENS AKTIENGESELLSCHAFT et al.  |   |   |                     |
| 1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.<br>2. This REPORT consists of a total of 4 sheets, including this cover sheet.<br>3. This report is also accompanied by ANNEXES, comprising:<br>a. <input type="checkbox"/> <i>sent to the applicant and to the International Bureau</i> a total of    sheets, as follows:<br><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).<br><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.<br>b. <input type="checkbox"/> ( <i>sent to the International Bureau only</i> ) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). |   |   |                     |
| 4. This report contains indications relating to the following items:<br><input checked="" type="checkbox"/> Box No. I    Basis of the report<br><input type="checkbox"/> Box No. II   Priority<br><input type="checkbox"/> Box No. III   Non-establishment of opinion with regard to novelty, inventive step and industrial applicability<br><input type="checkbox"/> Box No. IV   Lack of unity of invention<br><input checked="" type="checkbox"/> Box No. V   Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement<br><input type="checkbox"/> Box No. VI   Certain documents cited<br><input type="checkbox"/> Box No. VII   Certain defects in the international application<br><input type="checkbox"/> Box No. VIII   Certain observations on the international application   |   |   |                     |
| Date of submission of the demand<br><br>25.01.2006  |   | Date of completion of this report<br><br>12.06.2006   |                     |
| Name and mailing address of the international preliminary examining authority:<br> European Patent Office - P.B. 5818 Patentlaan 2<br>NL-2280 HV Rijswijk - Pays Bas<br>Tel. +31 70 340 - 2040 Tx: 31 651 epo nl<br>Fax: +31 70 340 - 3016   |   | Authorized officer<br><br>Dhondt, E<br><br>Telephone No. +31 70 340-3677<br> |                     |

**INTERNATIONAL PRELIMINARY REPORT  
ON PATENTABILITY**

International application No.  
PCT/EP2005/001405

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**Box No. I Basis of the report**

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1. With regard to the **language**, this report is based on
- ☒ the international application in the language in which it was filed
  - ☐ a translation of the international application into , which is the language of a translation furnished for the purposes of:
    - ☐ international search (under Rules 12.3(a) and 23.1(b))
    - ☐ publication of the international application (under Rule 12.4(a))
    - ☐ international preliminary examination (under Rules 55.2(a) and/or 55.3(a))
2. With regard to the **elements\*** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):*

**Description, Pages**

1-4 as originally filed

**Claims, Numbers**

1-5 as originally filed

**Drawings, Sheets**

1/2, 2/2 as originally filed

- ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages
  - ☐ the claims, Nos.
  - ☐ the drawings, sheets/figs
  - ☐ the sequence listing (*specify*):
  - ☐ any table(s) related to sequence listing (*specify*):
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages
  - ☐ the claims, Nos.
  - ☐ the drawings, sheets/figs
  - ☐ the sequence listing (*specify*):
  - ☐ any table(s) related to sequence listing (*specify*):

\* If item 4 applies, some or all of these sheets may be marked "superseded."

**INTERNATIONAL PRELIMINARY REPORT  
ON PATENTABILITY**

International application No.  
PCT/EP2005/001405

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**Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

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1. Statement

|                               |             |     |
|-------------------------------|-------------|-----|
| Novelty (N)                   | Yes: Claims | 1-5 |
|                               | No: Claims  |     |
| Inventive step (IS)           | Yes: Claims | 1-5 |
|                               | No: Claims  |     |
| Industrial applicability (IA) | Yes: Claims | 1-5 |
|                               | No: Claims  |     |

2. Citations and explanations (Rule 70.7):

**see separate sheet**

**INTERNATIONAL PRELIMINARY  
REPORT ON PATENTABILITY  
(SEPARATE SHEET)**

International application No.

PCT/EP2005/001405

**Re Item V**

**Reasoned statement with regard to novelty, inventive step or industrial  
applicability; citations and explanations supporting such statement**

Reference is made to the following documents:

- D1 : DUESER M ET AL: "ANALYSIS OF A DYNAMICALLY WAVELENGTH-ROUTED OPTICAL BURST SWITCHED NETWORK ARCHITECTURE" JOURNAL OF LIGHTWAVE TECHNOLOGY, IEEE. NEW YORK, US, vol. 20, no. 4, April 2002 (2002-04), pages 574-585, XP001130015 ISSN: 0733-8724
- D2 : ZAPATA A ET AL: "Optimising scheduling delay in wavelength-routed optical burst switched networks with re-attempt capability" OPTICAL FIBER COMMUNICATION CONFERENCE, 2004. OFC 2004 LOS ANGELES, CA, USA FEB. 23-25, 2004, PISCATAWAY, NJ, USA, IEEE, vol. 2, 26 February 2004 (2004-02-26), pages 625-627, XP010745939 ISBN: 1-55752-772-5

The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and shows (the references in parentheses applying to this document): "A method of optimising connection set-up times between nodes in a centrally controlled network (page 575, right column, lines 26-30); the method comprising sending a path set-up request from a node to a controller (page 576, left column, lines 31-35); sending an acknowledgment message from the controller to the node, when the connection has been established (page 578, left column, lines 10-16)."

The subject-matter of claim 1 differs from this known D1 in that if a connection cannot be made at a requested time, a "no acknowledgment" message is not sent.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as reducing the complexity of the control plane.

Since none of the prior art documents disclose or hint at omitting the sending of a no acknowledgment signal the solution to this problem proposed in claim 1 of the present application is considered to involve an inventive step (Article 33(3) PCT).

Claims 2-5 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.